

1998 CORN CHEMICAL USAGE

Nitrogen was applied to 98% of the total 1998 corn acreage in the 16 states surveyed. All of the major producing states had at least 88% or more of the acreage treated. Growers used an average of 1.7 applications per acre applying 80 pounds per treatment. In the states surveyed, 83% of the planted corn acreage received phosphates. Potash fertilizer was applied to 67% of the corn acreage.

Herbicides were applied to 95% of the 16 state total corn acreage in 1998, while insecticides were used on 30% of the acreage. Atrazine was the most used herbicide with 69% of the reported acreage being treated. Atrazine was applied at a rate of 0.99 pound per acre on the average. Acetochlor and Metolachlor were the next two most widely used herbicides, and they were applied to 25% and 32% of the acreage, respectively. Chlorpyrifos and Terbufos were the most used insecticides, and they were both applied to 6% of the acreage.

CORN: ACREAGE, PERCENT RECEIVING CHEMICALS, NUMBER OF APPLICATIONS, RATE APPLICATION, SELECTED STATES, 1998

State	Area Planted	Nitrogen			Phosphate			Potash			Herbi ci de	nsecti ci d
		Area Applied	Appli - cations	Rate per Appli -	Area Applied	Appli - cations	Rate per Appli -	Area Applied	Appli - cations	Rate per Appli -	Area Applied	Area Applied
	1,000 Acres	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Number	Pounds	Percent	Percent
IA	12,500	96	1.5	83	81	1.0	59	81	1.0	78	98	18
MN	7,300	96	1.6	78	91	1.0	52	87	1.1	66	97	10
WI	3,700	97	1.8	52	96	1.0	40	96	1.1	49	97	24
SD 2/	3,900	94	1.3	62	78	1.0	38	25	1.0	22	95	--
TOTAL 3/	71,390	98	1.7	80	83	1.1	51	66	1.1	76	96	30

1/ Refers to acres receiving one or more applications of a specific chemical.

2/ Insufficient reports to publish data for insecticides.

3/ Refers to 16 major corn states including: CO, IL, IN, IA, KS, KY, MI, MN, MO, NE, NC, OH, PA, SD, TX, and WI.

CORN: FREQUENCY AND EXTENT OF CHEMICAL USAGE BY ACTIVE INGREDIENT, MINNE

Active Ingredient	Area Applied 1/	Applications	Rate per Application	Rate per year	Total Applied
	Percent	Number	Pounds	Pounds	1,000 Pounds
HERBICIDES:					
2,4-D	6	1.3	0.38	0.52	229
Acetochlor	28	1.0	1.59	1.59	3,206
Alachlor	2	1.0	3.15	3.15	462
Atrazine	39	1.0	0.59	0.65	1,853
Bromoxynil	7	1.0	0.25	0.25	132
Cyanazine	5	1.0	0.86	0.86	288
Dicamba	46	1.0	0.37	0.37	1,221
EPTC	3	1.0	4.14	4.14	1,053
Metolachlor	25	1.0	2.05	2.05	3,771
Nicosulfuron	21	1.0	0.02	0.02	37
Primisulfuron	5	1.0	0.02	0.02	5

1/ Refers to acres receiving one or more applications of a specific chemical.